



SKF CARB® Toroidal bearing Tapered bore Full complement

CARB® bearings are single row bearings with long, slightly barrel-shaped symmetrical rollers. The outer ring has a torus-shaped raceway with a profile radius extending beyond the centre of the bearing. The inner ring raceway is shaped accordingly. CARB® toroidal roller bearings combine the self-aligning capability of spherical roller bearings with the axial displacement ability of cylindrical roller bearings. CARB® bearings can also have the compact cross section and high load carrying capacity normally associated with needle roller bearings.

They are intended exclusively as non-locating bearings. They can simplify locating/non-locating bearing arrangements because thermal expansion of the shaft can be accommodated within the bearing virtually without friction. Bearing arrangements consisting of a spherical roller bearing in the locating position and a CARB® bearing in the non-locating position provide a space- and weight-saving bearing arrangement with a low cost of ownership. CARB® bearings can reduce noise and vibration levels, for example, in paper machines and fans.

Non-sealed basic design CARB® bearings

Depending on their series and size, standard CARB toroidal roller bearings are manufactured to one of the following basic designs: bearings with a cage and full complement bearings. The load carrying capacity of full complement CARB bearings is considerably higher than that of same-sized bearings with a cage. The majority of CARB bearings are available with either a cylindrical or tapered bore. Depending on the bearing series, the tapered bore has a taper of either 1:12 [designation suffix K] or 1:30 [designation suffix K30].

Characteristics

Series: CARB®

Bore: Tapered bore

With sealing: No